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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/910,899	07/24/2001	Michihiko Ichinose	Q63444	3356

7590 02/19/2003
SUGHRUE, MION, ZINN, MACPEAK & SEAS
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Washington, DC 20037

EXAMINER

THAI, LUAN C

ART UNIT	PAPER NUMBER
2827	

DATE MAILED: 02/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/910,899	ICHINOSE, MICHIKO
	Examiner Luan Thai	Art Unit 2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 18 December 2002.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) 6-12 and 14-20 is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-5 and 13 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 11) The proposed drawing correction filed on 18 December 2002 is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.
 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) The translation of the foreign language provisional application has been received.
 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u> .	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverses Embodiment I, Figure 5B (claims 1-5 and 13) in Paper No. 9 filed December 18, 2001, is acknowledged. The traversal is on the ground(s) that Claims 1-3 are generic. After review the claims, the Examiner agrees with the Applicant that Claims 1-3 are generic.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

3. The information disclosure statement (IDS) filed on 07/24/01 has been considered by the examiner.

Oath/Declaration

4. The declaration filed 07/24/01 is acceptable.

Drawings

5. The proposed drawing corrections were received on 12/18/02 and now have been approved. These drawings are 5B and 9D.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7. Claims 1 and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim (5,963,433).

The figures and reference numbers referred to in this office action are used merely to indicate an example of a specific teaching and are not to be taken as limiting.

Regarding claims 1 and 13, Kim (see specifically figure 4) discloses a semiconductor device, comprising: a first resin package comprising: a semiconductor chip 35; a first resin 37 sealing the semiconductor chip 35; a first package electrode 33 on a surface of the first resin 37, comprising a

first electrode region 32 and a second electrode region 31 connected to the first electrode region 32; and a mounted substrate 40 connected to the first electrode region 32 via solder 45. Although Kim does not explicitly disclose a chip electrode on the main surface of the semiconductor chip 35, this feature is taken to be inherent in the semiconductor chip 35, since the chip 35 electrically connecting to the first electrode region 32 via conductive wire 36 is disclosed (Col. 3, lines 19+) and it appears that some type of chip electrode must exist on the surface of the chip 35 for the conductive wire 36 electrically connected to.

8. Claims 1-5 and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Solberg (6,147,401).

The figures and reference numbers referred to in this office action are used merely to indicate an example of a specific teaching and are not to be taken as limiting.

Regarding claims 1-5 and 13, Solberg (see specifically figures 3-4) discloses a semiconductor device, comprising: a first resin package comprising: a semiconductor chip 50; a chip electrode 54 on the active surface of the semiconductor chip 50; a first resin 58 sealing the semiconductor chip 50; a first package electrode A-C (see figure 3 attached) on a surface of the first resin 58, comprising: a first electrode region A connected to the chip electrode 54 via an inner conductive wiring portion B and a second electrode region C (e.g., the left end portion of the wiring portion B) connected to the first electrode region A (via conductive

wiring portion B); and a mounted object (e.g., mounting substrate) 64 connected to the first electrode region A via conductive wiring portion D. Solberg further discloses a second resin 76 sealing the first resin package and a first surface of the mounted object 64 (see figure 4); the first electrode region A being arranged along an edge of the first resin package, and the second electrode region C being arranged at an inner position with respect to the first electrode region A.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan Thai whose telephone number is (703) 308-1211. The examiner can normally be reached on 7:00 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on (703) 305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



Luan Thai
January 20, 2003